## Excercise

## Lab 1 - Creating and Displaying Variables

Write a Python script that sets the following variables:

1. first\_name - Set to your first name
2. last\_name - Set to your last name
3. age - Set to your age as an integer
4. birth\_date - Set to your birthdate as a string

Using the variables, print the following to the screen when you run the script:

My name is FIRST\_NAME LAST\_NAME.

I was born on BIRTH\_DATE, and I'm AGE years old.

my attempt:

#! python3.6

user = { 'admin': True, 'active': True, 'name': 'Kevin' }

print(user.names['admin'])

print(user.values['admin'])

one possible solution:

#!/usr/bin/env python3

first\_name = "Kevin"

last\_name = "Bacon"

age = 59

birth\_date = "07/08/1958"

print(f"My name is {first\_name} {last\_name}.")

print(f"I was born on {birth\_date}, and I'm {age} years old.")

## Lab 2 - Exercise: Working with If/Else

Create a script that has a single variable you can set at the top called user. This user is a dictionary containing the keys:

* 'admin' - a boolean representing whether the user is an admin user.
* 'active' - a boolean representing whether the user is currently active.
* 'name' - a string that is the user’s name.

Example:

user = { 'admin': True, 'active': True, 'name': 'Kevin' }

Depending on the values of user print one of the following to the screen when you run the script.

* Print (ADMIN) followed by the user’s name if the user is an admin.
* Print ACTIVE - followed by the user’s name if the user is active.
* Print ACTIVE - (ADMIN) followed by the user’s name if the user is an admin and active.
* Print the user’s name if neither active nor an admin.

Change the values of user and re-run the script multiple times to ensure that it works.

My attempt:

#!/dev/ python3.6

FIRST\_NAME = 'jonathan'

LAST\_NAME = 'jollz'

AGE\_1 = 10000000

BIRTH\_DATE = '4/1/79'

print(f"my name is {FIRST\_NAME} {LAST\_NAME}.")

print(f"I was born on {BIRTH\_DATE}, and I am {AGE\_1} years old.")

One possible solution:

#!/usr/bin/env python3.6

user = { 'admin': True, 'active': True, 'name': 'Kevin' }

prefix = ""

if user['admin'] and user['active']:

prefix = "ACTIVE - (ADMIN) "

elif user['admin']:

prefix = "(ADMIN) "

elif user['active']:

prefix = "ACTIVE - "

print(prefix + user['name'])

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Skipped for time. See LinuxJazz lab3 answer with help from a family member

## Lab 3 - Exercise: Iterating Over Lists

[Exercise Instructions](https://linuxacademy.com/cp/exercises/view/id/707/module/168)

[Solution](https://linuxacademy.com/cp/exercises/view/id/707/module/168#/)

[Mark as Completed](https://linuxacademy.com/cp/exercises/view/id/707/module/168#/)

Building on top of the conditional exercise, write a script that will loop through a list of users where each item is a user dictionary from the previous exercise printing out each user’s status on a separate line. Additionally, print the line number at the beginning of each line, starting with line 1. Be sure to include a variety of user configurations in the users list.

User Keys:

* 'admin' - a boolean representing whether the user is an admin user.
* 'active' - a boolean representing whether the user is currently active.
* 'name' - a string that is the user’s name.

Depending on the values of the user, print one of the following to the screen when you run the script.

* Print (ADMIN) followed by the user’s name if the user is an admin.
* Print ACTIVE - followed by the user’s name if the user is active.
* Print ACTIVE - (ADMIN) followed by the user’s name if the user is an admin and active.
* Print the user’s name if neither active nor an admin.